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RECORDATION DATE: 10/20/2000

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KAWAMOTO, YOJI

DOC DATE: 10/04/2000

ASSIGNOR:

KAWAMURA, HIROFUMI

DOC DATE: 10/11/2000

ASSIGNOR:

FUTAGAMI, MOTOMASA

DOC DATE: 10/05/2000

ASSIGNOR:

NAGANO, MOTOHIKO

DOC DATE: 10/05/2000

ASSIGNEE:

SONY CORPORATION
7-35, KITASHINAGA 6-CHOME
SHINAGAWA-KU, TOKYO 141-0001, JAPAN

SERIAL NUMBER: 09593107

FILING DATE: 06/13/2000

PATENT NUMBER:

ISSUE DATE:

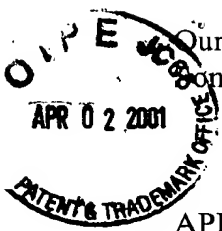
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ANTIONE ROYALL, EXAMINER
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Our Docket No: 09792-4879
Sony Docket No: S00P0708US00

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Yoji Kawamoto
SERIAL NO: 09/593,107
FILED: June 13, 2000
TITLE: COMMUNICATION SYSTEM, NETWORK SYSTEM, INFORMATION
CONTROLLER AND TERMINAL EQUIPMENT
AU: 2756

Assist. Commissioner of Patents
Washington, D.C. 20231

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REVOCATION AND POWER OF ATTORNEY

Dear Sir:

SONY CORPORATION, a Japanese Corporation, having a place of business at 7-35,
Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141, Japan and owner of the above-
referenced patent application, hereby revokes all former appointments of powers of attorney
and hereby appoints the following attorneys to transact all business in the United States
Patent and Trademark Office connected herewith:

Thomas J. Burton, Reg. No. P-47,464
Brian J. Gill, Reg. No. 46,727
Gregory Gulliver, Reg. No. 44,138
John F. Griffith, Reg. No. 44,137
Kevin W. Guynn, Reg. No. 29,927
Jennifer Hammond, Reg. No. 41,814
Lana Knedlik, Reg. No. 42,748
Michael L. Kiklis, Reg. No. 38,939
Eric N. Kohli, Reg. No. 43,726
Joseph A. Mahoney, Reg. No. 38,956
David R. Metzger, Reg. No. 32,919

Michael A. Molano, Reg. No. 39,777
Christopher P. Raush, Reg. No. 45,034
Howard B. Rockman, Reg. No. 22,190
Francisco Rubio-Campos, Reg. No. 45,358
Marina N. Saito, Reg. No. 42,121
Alison P. Schwartz, Reg. No. 43,863
Jordan A. Sigale, Reg. No. 39,028
Janelle D. Strobe, Reg. No. 34,738
Vincent Tassinari, Reg. No. 42,179
Shashank S. Upadhye
Jeffrey Wheeler, Reg. No. 39,066

of the firm:

SONNENSCHN NATH & ROSENTHAL
P.O. Box 061080
Wacker Drive Station - Sears Tower
Chicago, Illinois 60606-1080
(312) 876-8000 telephone
(312) 876-7934 facsimile

to which all correspondence is to be directed.

The undersigned hereby states that I am empowered to sign this Revocation and Power of Attorney on behalf of SONY CORPORATION and certify that an assignment of the subject application to SONY CORPORATION was recorded with the United States Patent and Trademark Office on October 20, 2000 at Reel/Frame 011192/0429; that I have reviewed all the documents in the chain of title in the subject application and to the best of my knowledge and belief, title is in the name of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application.

Signature: Yujiro Yamanaka Date: Mar. 19, 2001

Name: Yujiro Yamanaka
(Print)

Title: Manager of Legal & Intellectual Property Dept.



101503855

To the Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

YOJI KAWAMOTO, HIROFUMI KAWAMURA, MOTOMASA FUTAGAMI and
MOTOHIKO NAGANO

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name☐ Other
Execution Date: October 4, 2000; October 11, 2000;
October 5, 2000 and October 5, 2000

2. Name and address of receiving party(ies):

Name: Sony Corporation

Internal Address: _____

Street Address: 7-35, Kitashinagawa 6-ChomeCity, State and Zip: Shinagawa-ku, Tokyo, 141-0001 JAPAN

Additional Name(s) & address(es) attached?

☐ Yes ☒ NoRECEIVED
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4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No. 09/593,107
B. Filed: June 13, 2000

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Charles P. SammutInternal Address: Limbach & Limbach L.L.P.
Street Address: 2001 Ferry Building
City, State, ZIP: San Francisco, California 94111
Telephone: (415) 433-4150
Facsimile: (415) 433-8716Attorney Docket No. SONY-T0708

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00☒ Enclosed
☒ Charge any deficiencies in the enclosed fee to
Deposit Account No. 12-1420
☐ Authorized to be charged to deposit account8. Deposit account number: 12-1420

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Charles P. Sammut, Reg. No. 28,901
Name of Person Signing
SignatureOctober 16, 2000
Date

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11/01/2000 MTHA11 00000217 09593107

01 PD:581

40.00 DP

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in COMMUNICATION SYSTEM, NETWORK SYSTEM, INFORMATION CONTROLLER AND TERMINAL EQUIPMENT

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan (hereinafter referenced as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: 09/593,107, Filing Date: 06/13/2000.

This assignment executed on the dates indicated below.

YOJI KAWAMOTO

Name of first or sole inventor

Execution date of U.S. Patent Application

TOKYO, JAPAN

Residence of first or sole inventor

Yoji Kawamoto

October 4, 2000

Signature of first or sole inventor

Date of this assignment

HIROFUMI KAWAMURA

Name of second inventor

Execution date of U.S. Patent Application

KANAGAWA, JAPAN

Residence of second inventor

*Hirofumi Kawamura**October 11, 2000*

Signature of second inventor

Date of this assignment

MOTOMASA FUTAGAMI

Name of third inventor

Execution date of U.S. Patent Application

KANAGAWA, JAPAN

Residence of third inventor

*Motomasa Futagami**Oct. 6, 2000*

Signature of third inventor

Date of this assignment

MOTOHIKO NAGANO

Name of fourth inventor

Execution date of U.S. Patent Application

TOKYO, JAPAN

Residence of fourth inventor

*Motohiko Nagano**October 5, 2000*

Signature of fourth inventor

Date of this assignment

Name of fifth inventor

Execution date of U.S. Patent Application

Residence of fifth inventor

Signature of fifth inventor

Date of this assignment